IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) An editing system having an editing device for editing a base band signal and an editing controlling device connected to the editing device,

wherein the editing controlling device comprises:

first decoding means for decoding a first encoded bit stream including first audio/video data of which a material has been encoded and outputting a first base band signal;

second decoding means for decoding a second encoded bit stream including second audio/video data different from said first audio/video data of which a material has been encoded and outputting a second base band signal to the editing device,

wherein the editing device matches a phase of the second base band signal with stored codec information corresponding to cue information, and

wherein said codec information includes a moving vector, a picture type, a quantizing step size, and a quantizing level;

encoding means for re-encoding a third base band signal as an edited result of the splicing together the first base band signal and the second base band signal received from the editing device with codec information used in said first decoding means and said second decoding means and outputting a third encoded bit stream; and

controlling means for switching codec information used in decoding the first and second encoded bit streams corresponding to edit position information received from an external device.

2.   (Original)   The editing system as set forth in claim 1, further comprising:

selecting means for selecting the third encoded bit stream in a predetermined

region including an edit position at which the first base band signal and the second base band

signal are connected and for selecting one of the first encoded bit stream and the second encoded

bit stream in other than the predetermined region.

3.   (Original)   The editing system as set forth in claim 1, further comprising:

means for correlating the first and second encoded bit streams with the first and

second base band signals.

4.   (Original)   The editing system as set forth in claim 1, wherein the first

encoded bit stream and the second bit stream are input from a material storing device, and

wherein the third encoded bit stream is output to the material storing device.

5.   (Original)   The editing system as set forth in claim 1,

wherein the first encoded bit stream is a broadcast signal received from another

station through a transmission medium, and

wherein the second encoded bit stream is a broadcast material inserted into the

broadcast signal.

6.   (Original)   The editing system as set forth in claim 5,

wherein the broadcast material is a CM (Commercial Message) material.

00262411

7.   (Original)   The editing system as set forth in claim 5,

wherein the broadcast material is a station logo.

8.   (Currently Amended) An editing controlling apparatus, comprising

first decoding means for decoding a first encoded bit stream including first

audio/video data of which a material has been encoded and outputting a first base band signal;

second decoding means for decoding a second encoded bit stream including

second audio/video data different from said first audio/video data of which a material has been

encoded and outputting a second base band signal to an editing device,

wherein the editing device is adapted to match a phase of the second base band

signal with stored codec information corresponding to cue information, and

wherein said codec information includes a moving vector, a picture type, a

quantizing step size, and a quantizing level;

encoding means for re-encoding a third base band signal as an edited result of the

splicing together of the first base band signal and the second base band signal received from the

editing device with codec information used in said first decoding means and said second

decoding means and outputting a third encoded bit stream; and

controlling means for switching codec information used in decoding the first and

second encoded bit streams corresponding to edit position information received from an external

device.

9.   (Original)   The editing controlling apparatus as set forth in claim 8, further comprising:

selecting means for selecting the third encoded bit stream in a predetermined region including an edit position at which the first base band signal and the second base band signal are connected and for selecting one of the first encoded bit stream and the second encoded bit stream in other than the predetermined region.

10.   (Original)   The editing controlling apparatus as set forth in claim 8, further comprising:

means for correlating the first and second encoded bit streams with the first and second base band signals.

11.   (Original)   The editing controlling apparatus as set forth in claim 8,

wherein the first encoded bit stream and the second bit stream are input from a material storing device, and

wherein the third encoded bit stream is output to the material storing device.

12.   (Original)   The editing controlling apparatus as set forth in claim 8,

wherein the first encoded bit stream is a broadcast signal received from another station through a transmission medium, and

wherein the second encoded bit stream is a broadcast material inserted into the broadcast signal.

13. (Original) The editing controlling apparatus as set forth in claim 12,

wherein the broadcast material is a CM (Commercial Message) material.

14. (Original) The editing controlling apparatus as set forth in claim 12,

wherein the broadcast material is a station logo.

15. (Currently Amended) An editing controlling method, comprising the steps of:

inputting a first encoded bit stream including first audio/video data of which a

first material has been encoded and a second encoded bit stream including second audio/video

data different from said first audio/video data of which a second material has been encoded;

sending to an editing device a first base band signal and a second base band signal

of which the first encoded bit stream and the second encoded bit stream have been decoded

respectively;

matching a phase of the second base band signal with stored codec information

corresponding to cue information,

wherein said codec information includes a moving vector, a picture type, a

quantizing step size, and a quantizing level;

receiving a third base band signal as an edited result of the splicing together of the

first base band signal and the second base band signal from the editing device;

selecting required codec information of switching codec information used for

decoding the first encoded bit stream and the second encoded bit stream corresponding to edit

position information received from an external device; and

re-encoding the third base band signal with the selected coded information and outputting a third encoded bit stream.

16. (Currently Amended) An editing controlling apparatus having an editing device for editing a base band signal and an editing controlling device connected to the editing device,

wherein the editing controlling device comprises:

first decoding means for decoding a first encoded bit stream including a first audio/video data of which a material has been encoded and outputting a first base band signal;

second decoding means for decoding a second encoded bit stream including a second audio/video data different from said first audio/video data of which a material has been encoded and outputting a second base band signal to the editing device,

wherein the editing device is adapted to match a phase of the second base band signal with stored codec information corresponding to cue information, and

wherein said codec information includes a moving vector, a picture type, a quantizing step size, and a quantizing level;

comparing means for comparing the first base band signal, the second base band signal, and a third base band signal comprising spliced together data from said first and second base band signals in the state that the phases thereof match so as to detect an edit position;

controlling means for switching codec information to be used in a re-encoding process corresponding to information of the edit position, the codec information used in decoding the first and second encoded bit stream; and

encoding means for re-encoding the third base signal as an edited result of the first base band signal and the second base band signal received from the editing device using the selected codec information and outputting a third encoded bit stream.

17. (Original) The editing system as set forth in claim 16, further comprising:

selecting means for selecting the third encoded bit stream in a predetermined region including an edit position at which the first base band signal and the second base band signal are connected and for selecting one of the first encoded bit stream and the second encoded bit stream in other than the predetermined region.

18. (Original) The editing system as set forth in claim 16, further comprising:

means for correlating the first base band signal, the second base band signal, and the third base band signal on time base;

means for storing the first base band signal and the second base band signal in such a manner that the first base band signal and the second base band signal correlate on the time base corresponding to an arrangement tag; and

means for storing codec information obtained in the decoding process of the first encoded bit stream and the second encoded bit stream in such a manner that the codec information correlates with the arrangement tag on the time base.

19. (Currently Amended) An editing controlling apparatus, comprising:

first decoding means for decoding a first encoded bit stream including a first audio/video data of which a material has been encoded and outputting a first base band signal;

second decoding means for decoding a second encoded bit stream including a second audio/video data different from said first audio/video data of which a material has been encoded and outputting a second base band signal to an editing device,

wherein the editing device matches a phase of the second base band signal with stored codec information corresponding to cue information, and

wherein said codec information includes a moving vector, a picture type, a quantizing step size, and a quantizing level;

comparing means for comparing the first base band signal, the second base band signal, and a third base band signal comprising spliced together data from said first and second base band signals in the state that the phases thereof match so as to detect an edit position;

controlling means for switching codec information to be used in a re-encoding process corresponding to information of the edit position, the codec information used in decoding the first and second encoded bit stream; and

encoding means for re-encoding the third base signal as an edited result of the splicing together of the first base band signal and the second base band signal received from the editing device using the selected codec information and outputting a third encoded bit stream.

20.   (Original)   The editing controlling apparatus as set forth in claim 19, further comprising:

selecting means for selecting the third encoded bit stream in a predetermined region including an edit position at which the first base band signal and the second base band signal are connected and for selecting one of the first encoded bit stream and the second encoded bit stream in other than the predetermined region.

21. (Original) The editing controlling apparatus as set forth in claim 19, further comprising:

means for correlating the first base band signal, the second base band signal, and the third base band signal on time base;

means for storing the first base band signal and the second base band signal in such a manner that the first base band signal and the second base band signal correlate on the time base corresponding to an arrangement tag; and

means for storing codec information obtained in the decoding process of the first encoded bit stream and the second encoded bit stream in such a manner that the codec information correlates with the arrangement tag on the time base.

22. (Currently Amended) An editing controlling method, comprising the steps of:

inputting a first encoded bit stream including first audio/video data of which a first material has been encoded and a second encoded bit stream including second audio/video data different from said first audio/video data of which a second material has been encoded;

sending to an editing device a first base band signal and a second base band signal of which the first encoded bit stream and the second encoded bit stream have been decoded respectively;

matching a phase of the second base band signal with stored codec information corresponding to cue information,

wherein said codec information includes a moving vector, a picture type, a quantizing step size, and a quantizing level;

storing the first base band signal, the second base band signal, and codec

information used in the decoding process of the first base band signal and the second base band

signal;

receiving a third base band signal as an edited result of the splicing together of the

first base band signal and the second base band signal from the editing device;

comparing the first base band signal with the third base band signal in the state

that the phases of the first base band signal and the third base band signal match and comparing

the second base band signal with the third base band signal in the state that the phases of the

second base band signal and the third base band signal match so as to detect an edit position;

switching codec information to be used in a re-encoding process of the third base

band signal corresponding to the detected edit position, the codec information used in decoding

the first and second encoded bit stream; and

re-encoding the third base band signal with the selected coded information and

outputting a third encoded bit stream.

23. (Original) The editing controlling method as set forth in claim 22, further

comprising the steps of:

correlating the first base band signal, the second base band signal, and the third

base band signal on time base; and

storing codec information obtained in the decoding process of the first encoded bit

stream and the second encoded bit stream in such a manner that the codec information correlates

with an arrangement tag on the time base.

00262411

24. (Original) The editing controlling method as set forth in claim 22,

wherein when an edit position is detected, the comparison is performed for each picture, an edit position for each picture being detected, codec information being selected for each picture corresponding to each detected edit position.

25. (Original) The editing controlling method as set forth in claim 22,

wherein in the case that a picture that has been encoded in inter-frame predictive encoding process is re-encoded, when a relevant picture corresponding to a predictive picture in the third base band signal is present in the first base band signal or the second base band signal, the codec information is re-used.

26. (Original) The editing controlling method as set forth in claim 25,

wherein in the case that a picture that has been encoded in inter-frame predictive encoding process is re-encoded, when a relevant picture corresponding to a predictive picture in the third base band signal is present in the first base band signal or the second base band signal, the codec information is re-used,

wherein when the relevant picture is not present in the first base band signal or the second base band signal, it is determined whether or not a block corresponding to a predictive block smaller than the picture is present in the first base band signal or the second base band signal, and

wherein when the relevant block is present in the first base band signal or the second base band signal, codec information for each block is re-used.

27.   (Original)   The editing controlling method as set forth in claim 26, wherein when an inter-frame predictive encoding process and a motion compensating process have been performed, it is determined whether or not a block corresponding to the predictive block is present at a position moved by a moving vector.